





RxSafe Representatives

- James Wallace, nursing
- Karl Ordelheide, physician
- Victoria Starr, pharmacy
- Paul Gorman, overview

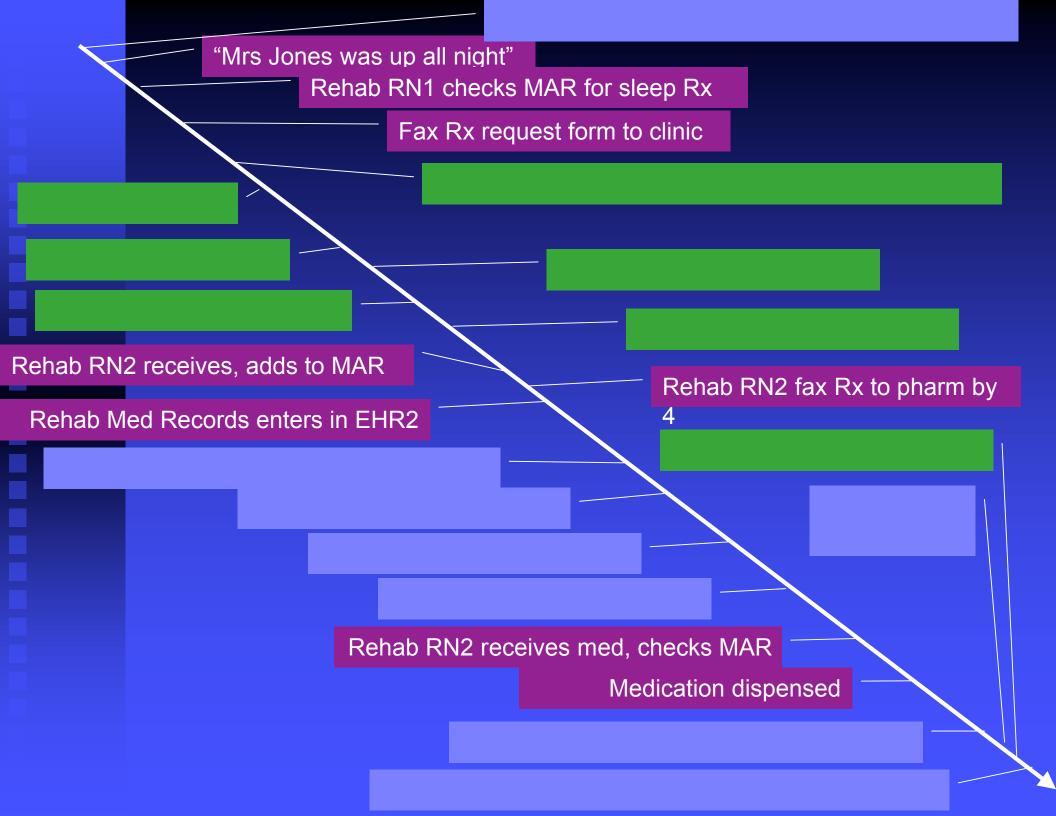
Problem: Mrs. Jones can't sleep

- Mrs. J. an elderly white female
- Mild cognitive impairment
- Multiple stable chronic conditions
- Many, many medications
- Recently hospitalized, now in rehab center
- Rehab center administers medications
- Pharmacy dispenses medications
- Physician prescribes medications
- Each responsible for tracking medications

New Prescription Rehab Center View







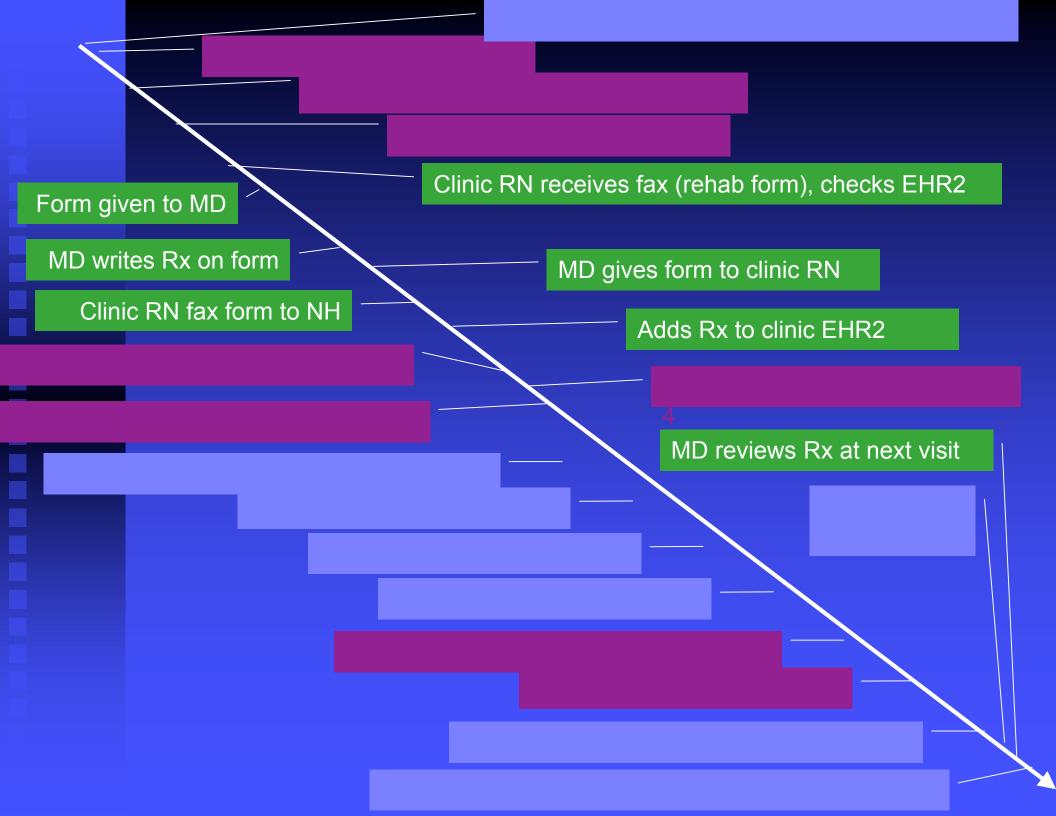
Rehab Nursing Perspective

- Rehab center (RC) RN multi-tasking needs of numerous residents
- Rx issues may take more than one shift and several RNs to resolve
- Heavy documentation requirements in RC regarding resident assessment and treatment
- Use of computers is limited in RC settings and
- Most of the documentation and communication is in paper form and handwritten

New Prescription Physicians' Office View







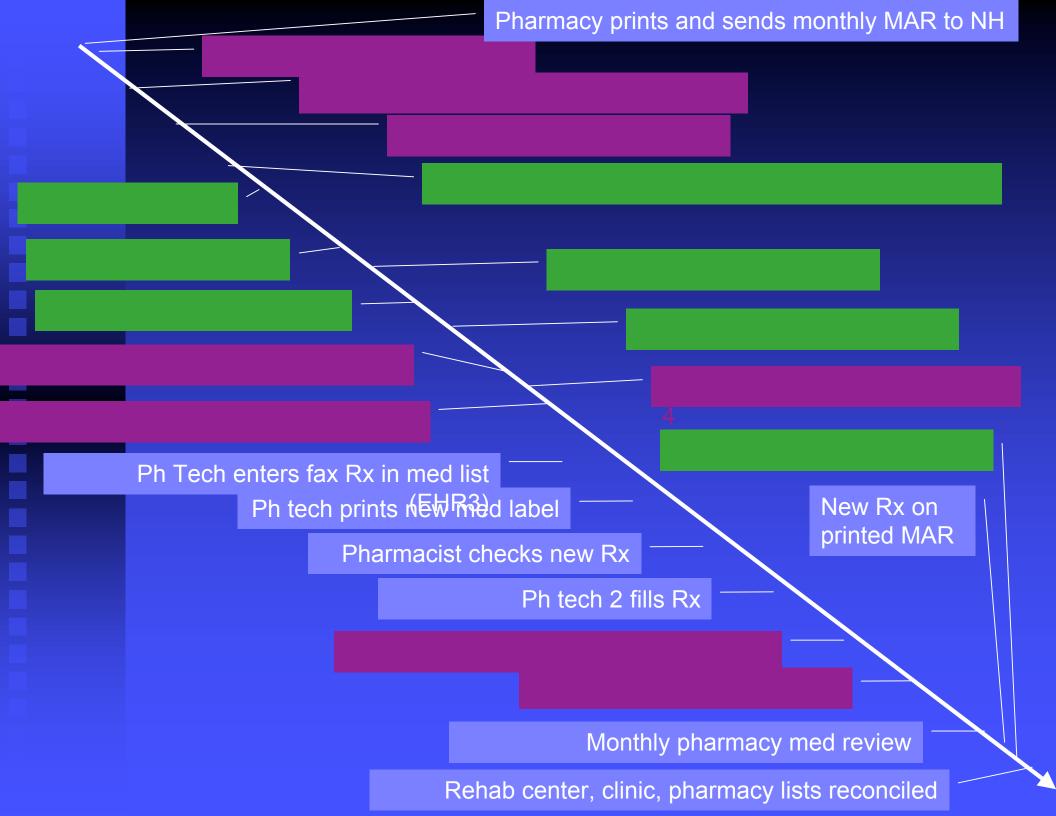
Clinic Perspective

- Faxes (paper documents) low priority in office work flow → delays may be days.
- Faxes encourage hand annotated responses
 → illegible, abbreviated often lead to more faxed queries
- Poor legibility, little value as records so often not included in office EHR
- Lack of ownership: "When fax leaves my station I've done my job."

New Prescription Pharmacy Service View







Pharmacy Perspective

- This looks very nice, however...
- Poor fax quality
- Missing information
- Order issues (conflicts, etc)
- Fax "conversation" back and forth
- Continuous process of reconciliation

Fax Graveyard

Pharmacy and rehab center both report they burnout fax machines



New Prescription System View





System Perspective

Fragmentation: multiple isolated processes that serve local needs

Bad

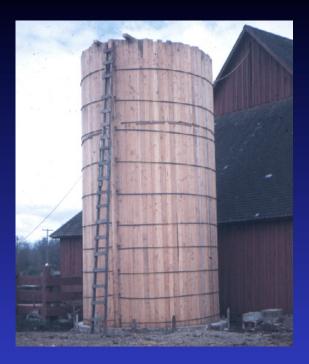
- Redundant systems
- Duplicate processes
- Human error
- Paper documents

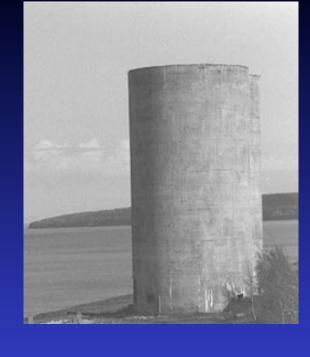
Good

- Redundant systems
- Duplicate processes
- Human expertise
- Paper documents

Silos of Data

- Secure systems meet local needs
- Different ages, structures, etc
- Connected by fax machines
- Fail to realize benefits of electronic medication lists





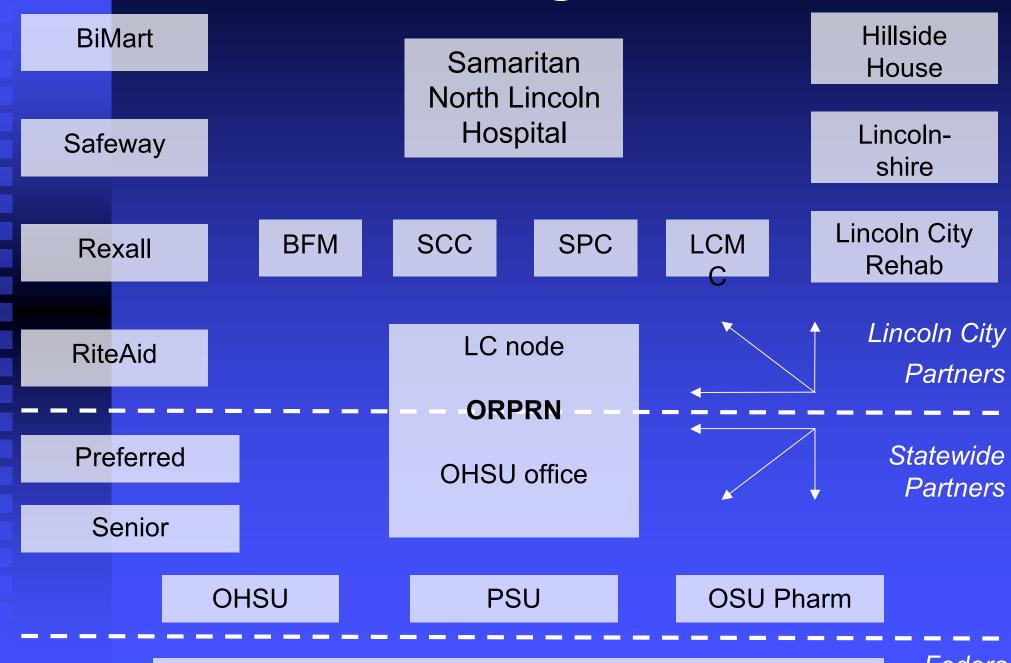




Added complexity

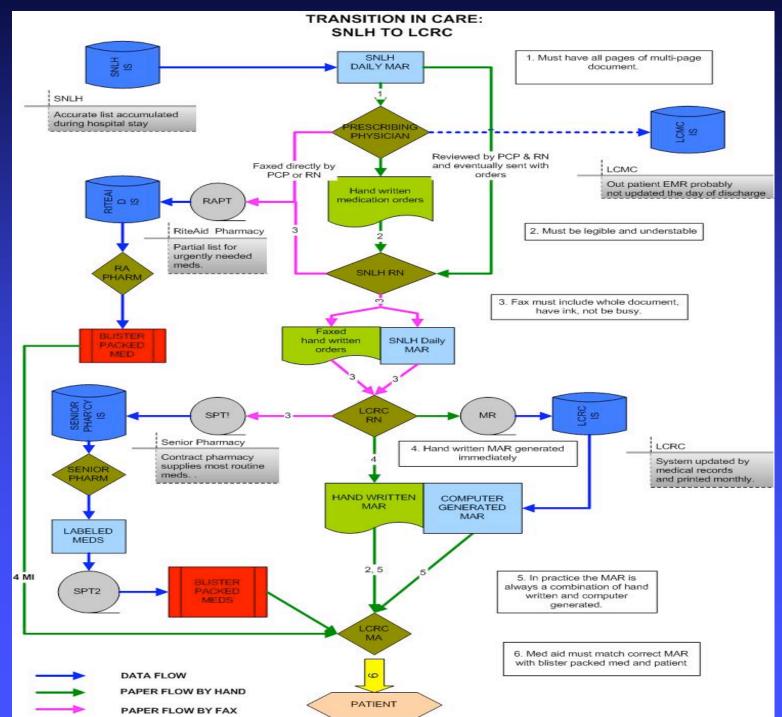
- Multiple disciplines
- Multiple organizations
- Multiple patients
- Multiple goals and constraints

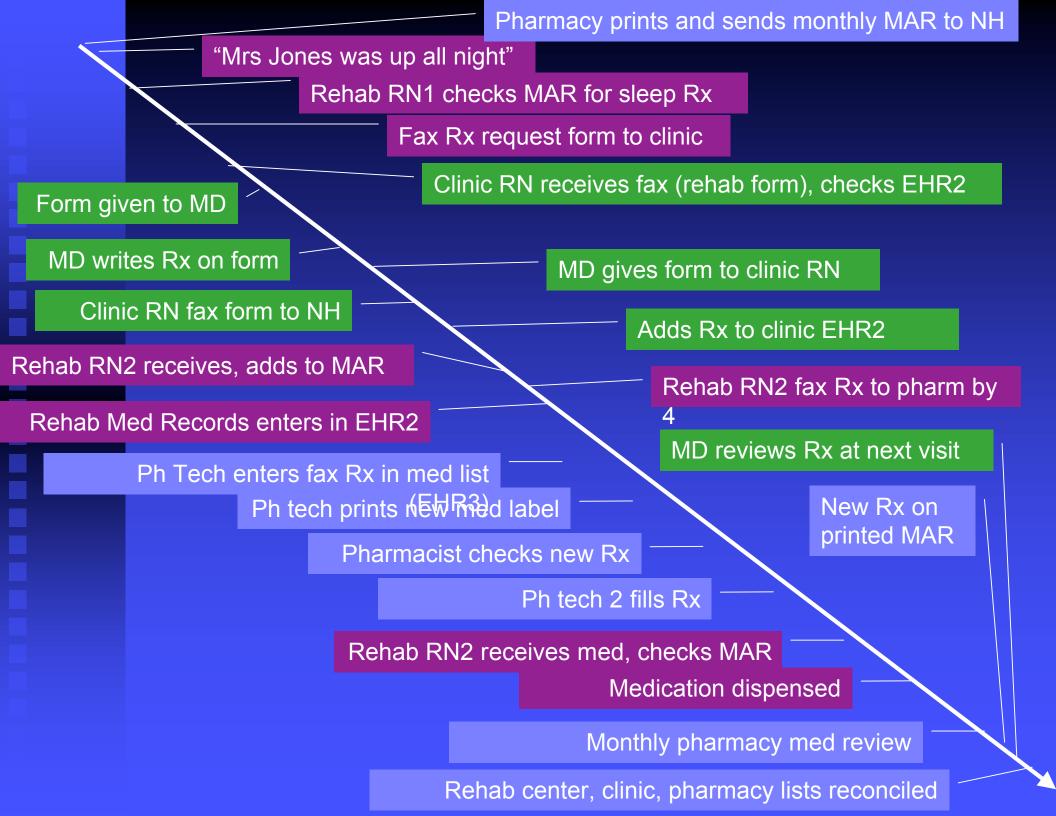
Acknowledgements



Federal Partner

Overview: Information Flows





Basic Steps in Medication Use Each with different information, technology

Dispensing
Pharmacists
Proprietary Software

Administering
Foster Home Staff
Paper Med Admin Record

Prescribing
Primary Care Clinician
Electronic Medical Record

Monitoring
Attentive Daughter
Notebook

Clinical Problem Everyone has different information

- Overmedication
 - duplications within class, between class
 - discontinued medications
- Undermedication
 - errors of omission
- Wrong medications
 - amaryl~reminyl; foradil~toradol
- Interactions
- Chronically ill elders especially vulnerable

Technical Problem Everyone has different technology

- Different types of institutions
 - ◆ Hospitals, Clinics
 - Pharmacies
 - Rehab & Assisted Living
- Different technology for different tasks
 - prescribing
 - dispensing
 - administering
- Miss opportunity to benefit from technology
 - e.g. interaction checking

Where We're Going Everyone On the Same Page

Dispensing
Pharmacists
Proprietary Software

Administering
Foster Home Staff
Paper Med Admin Record



Patient Centered Medication List



Prescribing
Primary Care Clinician
Electronic Medical Record

